

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A device for sealing a puncture extending through tissue proximal to an interior vessel surface, the device comprising:

a first disk having a self-expanding first bare wire frame that forms a plurality of petals, the plurality of petals having a first end and a second end;

a joint connected to the first end and second end of the plurality of petals; and

a proximal element having a second bare wire frame coupled to the first frame, the first disk being configured to be releasably coupled to the proximal element,

wherein the device has a retracted delivery configuration adapted for delivery to the puncture, and a deployed configuration in which the first disk is adapted to engage and substantially conform to the interior vessel surface, and the proximal element is configured to engage the tissue.

2. (Previously Presented) The device of claim 1, wherein the first disk is configured to be released from engagement with the interior vessel surface.

3. (Canceled)

4. (Previously Presented) The device of claim 1, wherein the proximal element comprises a second disk.

5. (Previously Presented) The device of claim 4, wherein the first disk is attached to a nut and the second disk is attached to a bolt, the nut configured to be releasably coupled to the bolt.

6. (Previously Presented) The device of claim 1, further comprising at least one delivery shaft configured to facilitate coupling of the first disk to the proximal element.

7. (Previously Presented) The device of claim 1, further comprising at least one delivery element constrained to translate a maximum distal depth.

8. (Previously Presented) The device of claim 6, wherein the at least one delivery shaft is configured to facilitate decoupling of the first disk from the proximal element.

9. (Previously Presented) The device of claim 1, wherein the proximal element comprises a spring.

10. (Previously Presented) The device of claim 1, wherein one or both of the first disk and the proximal element comprises barbs, hooks, sharp edges, or roughened surfaces.

11. (Previously Presented) The device of claim 1, further comprising a membrane encasing at least the self-expanding frame of the first disk.

12. (Previously Presented) The device of claim 1, further comprising a coagulant-enhancing agent disposed on one or both of the first disk and the proximal element.

13. (Previously Presented) The device of claim 1, wherein the device comprises a biodegradable material.

14. (Currently Amended) A device for sealing a puncture extending through tissue proximal to an interior vessel surface, the device comprising:

a first self-expanding disk having a first bare wire frame and a second self-expanding disk having a second bare wire frame, the frames of the first and second disks forming a plurality of petals, the plurality of petals having a first end and a second end; and

a joint connected to the first end and second end of the plurality of petals, the first disk being configured to be releasably coupled to the second disk;

wherein the device is configured to be released from engagement with the interior vessel surface after full deployment of the device, thereby permitting the device to be repositioned.

15. (Previously Presented) The device of claim 14, wherein the second self-expanding disk substantially conforms to the interior vessel surface.

16. (Previously Presented) The device of claim 14, further comprising a membrane encasing at least the second self-expanding disk.

17. (Previously Presented) The device of claim 14, further comprising a coagulant-enhancing agent disposed on one or both of the first and second self-expanding disks.

18. (Canceled)

19. (Previously Presented) The device of claim 14, further comprising a nut and a bolt, wherein the first self-expanding disk is attached to the nut and the second self-expanding disk is attached to the bolt, the nut configured to be releasably coupled to the bolt.

20. (Previously Presented) The device of claim 14, further comprising at least one delivery shaft configured to facilitate coupling of the first self-expanding disk to the second self-expanding disk.

21. (Previously Presented) The device of claim 20, wherein the at least one delivery shaft is configured to facilitate decoupling of the first self-expanding disk from the second self-expanding disk.

22-23. (Canceled).

24. (Previously Presented) The device of claim 14, wherein the device comprises a biodegradable material.

25. (Withdrawn) A device for sealing a puncture extending through tissue proximal to an interior vessel surface, the device comprising: a nut coupled to a bolt, wherein the device is configured to be releasably engaged to the interior vessel surface.

26. (Withdrawn) The device of claim 25, wherein the bolt is configured to substantially conform to the interior vessel surface.

27. (Withdrawn) The device of claim 25, wherein the nut is configured to be releasably coupled to the bolt.

28. (Withdrawn) The device of claim 25, wherein the nut comprises a first self-expanding disk and the bolt comprises a second self-expanding disk.

29. (Withdrawn) The device of claim 25, wherein the device is biodegradable.

30. (Currently Amended) A device for sealing a puncture extending through tissue proximal to an interior vessel surface, the device comprising:

a first disk having a self-expanding first bare wire frame that forms a plurality of petals, the plurality of petals having a first end and a second end;

a joint connected to the first end and second end of the plurality of petals; and

a proximal element having a second bare wire frame coupled to the first frame, wherein at least part of the device is biodegradable, the first disk being configured to be releasably coupled to the proximal element.

31. (Previously Presented) The device of claim 30, wherein the device has a retracted delivery configuration adapted for delivery to the puncture, and a deployed configuration in which the first disk is adapted to engage and substantially conform to the interior vessel surface, and the proximal element is configured to engage the tissue.

32. (Previously Presented) The device of claim 30, wherein the device is configured to be releasably engaged to the interior vessel surface.

33. (Previously Presented) The device of claim 30, wherein the first disk is configured to be releasably coupled to the proximal element.

34. (Previously Presented) The device of claim 30, wherein the proximal element comprises a second disk.

35. (Previously Presented) The device of claim 34, wherein the first disk is attached to a nut and the second disk is attached to a bolt, the nut configured to be releasably coupled to the bolt.

36. (Previously Presented) The device of claim 30, wherein the proximal element comprises a spring.

37. (Previously Presented) The device of claim 30, wherein one or both of the first disk and the proximal element comprises barbs, hooks, sharp edges, or roughened surfaces.

38. (Previously Presented) The device of claim 30, further comprising a minimally invasive delivery element configured to deliver the first disk and the proximal element.

39. (Previously Presented) The device of claim 30, further comprising at least one delivery element constrained to translate a maximum distal depth.

40. (Currently Amended) A device for sealing a puncture extending through tissue proximal to an interior vessel surface, the device comprising:

a first disk having a self-expanding frame that forms a plurality of petals, each petal of the plurality of petals having a first end, and a second end disposed adjacent to the first end, and an intermediate portion extending from the first end towards the second end;

a joint directly connected to the first end and second end of each of petal of the plurality of petals;

a proximal element coupled to the first disk; and

a minimally invasive delivery apparatus comprising first and second delivery elements configured to at least selectively limit distal translation of the first delivery element with respect to the second delivery element so that only the first disk is extended out of the minimally invasive delivery apparatus.